Technical Manual

(TLT-2H GPS/GSM Vehicle Tracker)

V1.5

Product main features：

- Real-time SMS query coordinates
- time position, Phone Position
- active help feature
- speed alarm function
- historical data uploading
- Low power reminderλ

  running track monitoring

1. Introduction

TLT-2H GPS / GSM vehicle is a remote location tracking device, based on GPS technology and GSM / GPRS technology made of. Access to the user via SMS latitude and longitude location information, and then in Google Maps or other mapping software to find the location tracking device; or tracking device positioning data uploaded via GPRS to a designated server, the user query through the Internet, real-time location tracking devices historical trajectory.

TLT-2H GPS / GSM vehicle tracking device can be used for motorcycles, electric golf cars, ordinary private car. The machine built-in antenna, one machine, easy to install.

2. Features

1, high-performance GPS chipset built-JRC. In weak signal conditions can pinpoint; in urban canyons and other areas with limited sky view can be good work.
2, built-in GSM / GPRS module, support GSM900/1800MHz. (850/1900 optional to do), can work worldwide.
3, support for SMS communication or GPRS TCP connection can be to receive location information by SMS or the Internet to view trajectory.
4, with SOS help function, shutoff power function, external power supply line cut alarm, electronic fence function, speed alarm, historical data upload, take the car parking throttle upload and uploading capabilities to track time.
5, high-reliability circuit design, meet the automotive industry related standards.

Notes：

1, please read this manual carefully and make the correct mode of operation to avoid any errors.

2, the proposed installation of this product to professional dealers to ensure the safety of use, installation and covert.

3 pictures in this manual may be the product you get will be different to you buy the real product.

4, If in doubt, please consult our company or dealer financing.

3. Product structure diagram

GSM/GPS/Power LED

3.1 Specification

Hardware	
GSM module	MTK program, GSM 900/1800 / 850/1900 dual-band or quad-band (optional) support for TCP protocol
GPS chip	JRC High sensitivity GPS chipset
GPS Sensitivity	-164dBm
GPS frequency	L1,1575.42MHz
C / A code	1.023MHz
Passage	210-channel, full-track
Location accuracy	2.5m, CEP
Speed Accuracy	0.1 m/s
Time accuracy	1 us and the GPS time synchronization
Coordinate system	WGS-84
Regain	Average of 0.1 s
Hot Start	Average of 1 s
Warm Start	Average of 30 s

Cold start	Average of 35 s
Height restriction	Maximum 18,000 meters (60,000 feet).
Speed limit	The fastest 515 m / s (1000 section).
Acceleration limit	Less than 4g
Operating Temperature	-25°C to 70°C
Humidity	5% ~ 95% No coagulation
Size	88mm×50mm×20mm
Voltage	12V

3.2 LED status lights description

1、Blue LED --- instructions GSM signal state

Condition	Meaning
Flash	No SIM card or no GSM network
Flash once every 8s	GSM receivers work well and stand-

2、Red LED --- charging instructions like

Condition	Meaning
Always	Charging
Extinguish	Charging complete

3、Green LED --- direct GPS signal status

Condition	Meaning
Does not shine	Work, but did not locate
Flash	Work, has been positioning

4. Annex

1、TLT-2H GPS / GSM Car Tracker
2、Power Line
3、Battery
4、Manual (CD)

5. Install SIM card

5.1.Select SIM card:

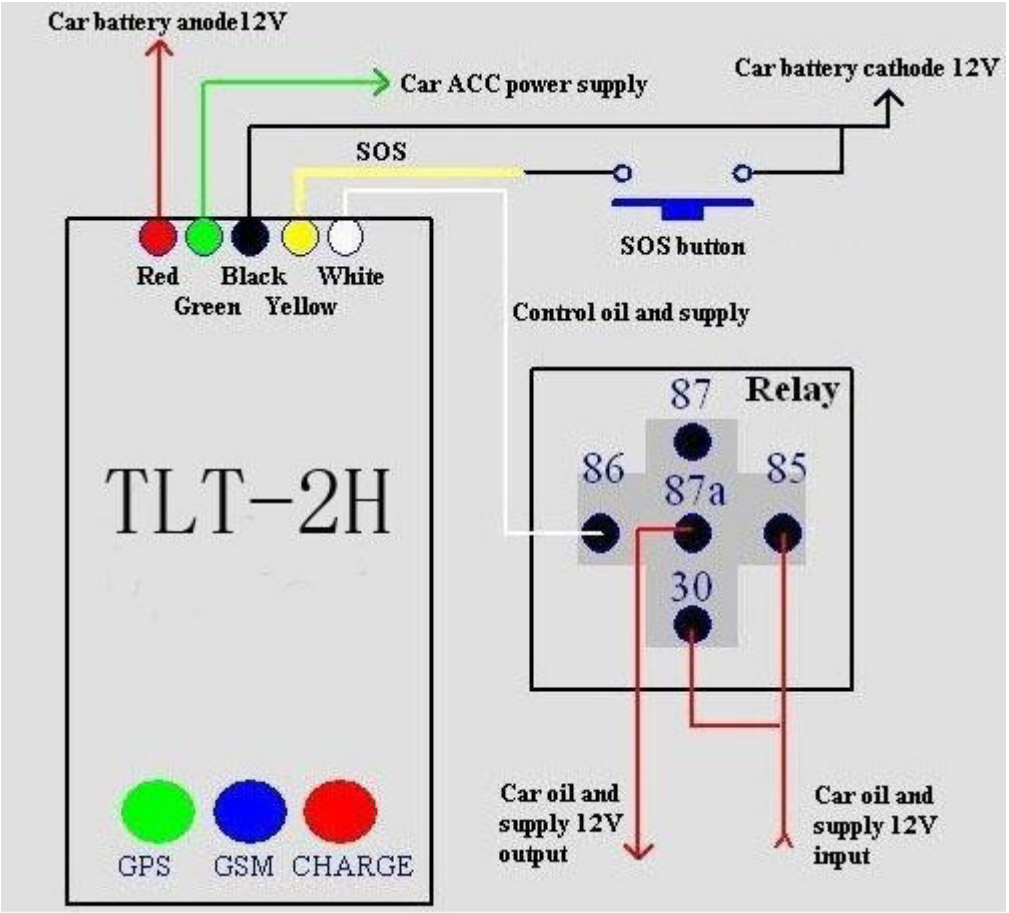
- You can use a local moving company's SIM card.

- Support SMS / GPRS capabilities and has sufficient balance.

5.2 Open the device shell, the special SIM card into SIM card slot and lock.

5.3 Installation wiring diagram

TLT-2H add 5 wires as shown below. Red 12V power cable for the car, then car battery cathode; black as the earth, then a car battery anode; yellow control line for the SOS SOS SOS switch button to add to the car battery anode; Green Line car then ACC power, that is, with car CD , radio, and other automotive electrical parallel. When the car keys placed in ACC file, the green line to the 12v voltage detection, the terminal will automatically open the charging function and switch mode GPRS uploaded regularly. Power to control the oil off the white line that is connected relay coils 86 feet at one end. Relay coil 85 feet that the other end, then asphalt supply 12V, 30 feet, 87a feet for the normally closed terminal, power supply circuit in series with the oil line. Please note that the correct installation of wire connection, if an error installing the device caused damage to, the Company is not responsible.



6. Specific Application

When you read the brief description of the product, the product has been installed, SIM card already installed. Start following a specific use.

First step, a product owner, stored telephone numbers; (non-stored numbers to send

the command to respond to the same products) and then modify the device configuration information. Products of the factory configured in the appendix. Command as follows：

Instruction Format: * new number 4-20 bit * Password 4 * number (1-3) **

For example: * 13900000000 * 0000 * 1 **

Note: User initial password is: 0000. TLT-2H can be stored up to three phone numbers. When TLT-2H receiving the order, confirm the user password is correct, after the success of the sender to send the confirmation to the "SET USER NUMBER (1-3) OK". This directive also applies to the new number with the number of existing coverage, such as A is set to the first stored number. Similarly, if B then sends commands to set the first stored number, then the number will replace the A B numbers, becoming the first stored number.

6.1 Mode of introduction of products

There are two operating modes of the product model that is SMS (Short Message Point to Point mode) and GPRS online mode.

1. Users who just want to use the phone when necessary to obtain query the vehicle position (longitude, latitude), in the GOOGLE map corresponding to the address query, or by phone to control vehicle power off oil, then use SMS (text mode) that be.

2. Users who require real-time vehicle dynamic control and need to check the historical trajectory of vehicles can then use GPRS real-time online mode.

6.2 Switching the two modes as follows：

Text messages (SMS) Point to Point mode:

Command format: 700 + user password (4)

For example: 7,000,000

Description: When TLT-2H receive the SMS, to confirm the user password is correct, the switch to SMS application mode. After the success of the sender to send the confirmation to the "SET MODE OK, CURRENT MODE: SMS P2P".

GPRS online mode:

Command format: 710 + user password 4

For example:: 7,100,000

Description: When TLT-2H receive the SMS, to confirm the user password is correct, the switch to GPRS mode. After the success of the sender to send the confirmation

to the "SET MODE OK, CURRENT MODE: GPRS".

Applications based on SMS mode operation

1. Single Location request instructions

Command format: 666 + user password 4

For example: 6,660,000

Description: When TLT-2H receiving the order, confirm the user password is correct, read the GPS information, regardless of the validity of it, together with the original software with the base station set return back to the sender.

Data format：

Lat: latitude (+/-) latitude value (precision after the decimal point 5)
Long:longitude direction (+/-) longitude value (precision after the decimal point 5)
Speed: speed KM / H (precision after the decimal point 2) Direction: Heading (accurate to two decimal places) Date: Date YYYY-MM-DD
Time: Time HH: MM: SS (GMT)
BS: base station information FIX: Position Status (A / V)
ID: IMEI
STATE: Information Status

Valid data sample：

Lat: +22.50500

Long: +114.01000

Speed: 0.00KM/H

Direction: 315.00

Date: 2008-04-25

Time: 16:39:45

BS: 25ee0dff

Fix: A

ID: 353686009002030

STATE: SMS

Invalid sample data：

Lat: +22.50500

Long: +114.01000

Speed: 0.00KM/H

Direction: 315.00

Date: 2008—04—25

Time: 16:39:45

BS: 25ee0dff

Fix: V

ID: 353686009002030

STATE: SMS

Note: If the cold start and the GPS does not locate, then return invalid information as shown below.

Case：ERROR GPS GPRMC FRAME DATA

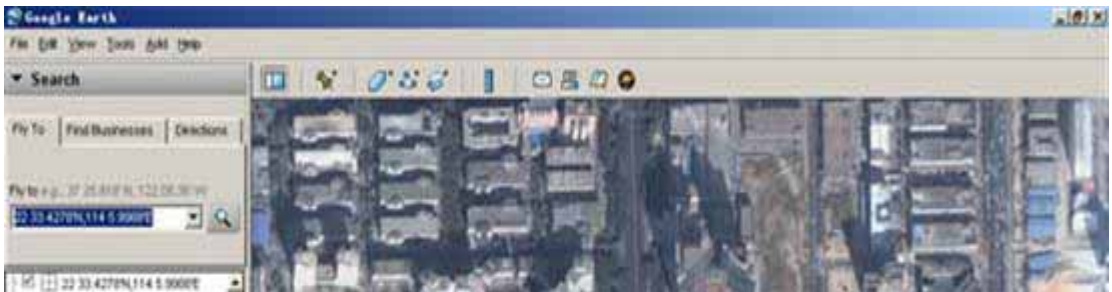
BS: 27971054

ID: 353686009002030

STATE: SMS

Check the map latitude longitude position of the corresponding detailed

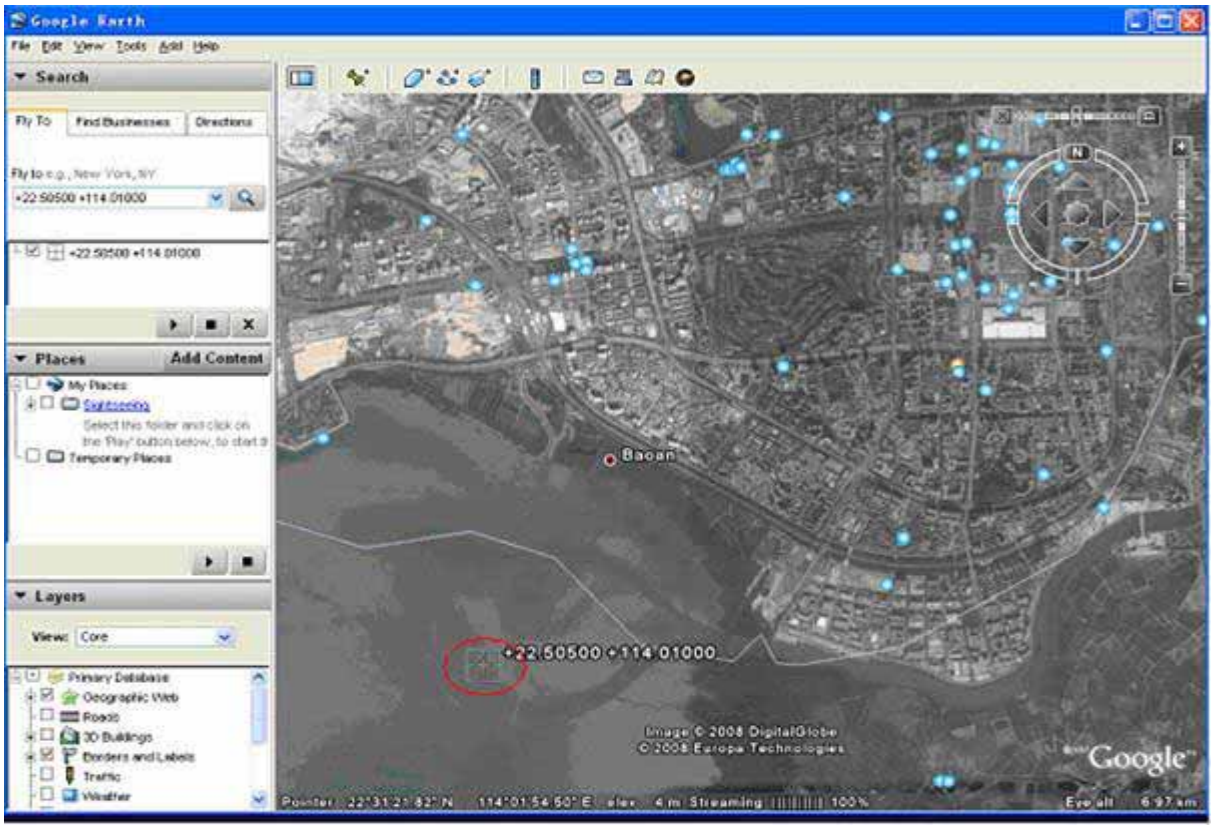
1, download Google map software from http://earth.google.com
2, open the Google Maps software (for more information on the Google Maps software, please refer to http://earth.google.com) as shown below. (Note change in location data format) or you can copy



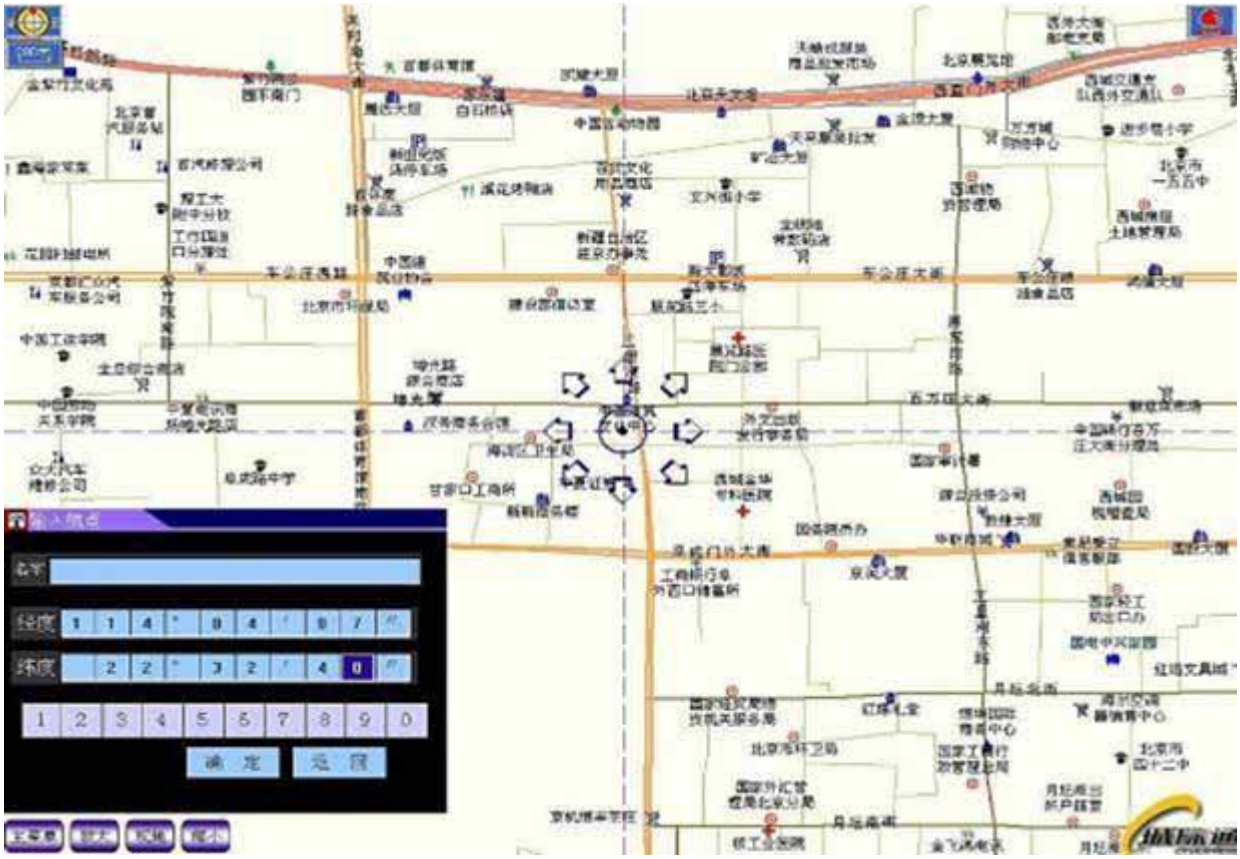
Send "666 + code" SMS command to the TLT-2H are latitude and longitude data. Enter your latitude and longitude received from the SMS and click the search button, Google Maps will show you the location map. For example: When you receive the information transmitted from tracker, as follows:

Lat: +22.50500
Long: +114.01000
Speed: 0.00KM/H
Direction: 315.00
Date: 2008-04-25
Time: 16:39:45
BS: 25ee0dff
Fix: A
ID: 353686009002030
STATE: SMS

Find locations in Google Maps, enter in the appropriate location: +22.50500 +114.01000. Obtain the following picture:



Or you can use the PDA or navigation device on a local map software, enter the location data. (Note change in location data format)



2. Function off fuel and electricity

1. Off fuel and electricity to be able to

a、Off oil and electricity SMS commands: 900 + user password

b、SMS confirmation off fuel and electricity directives: 901 + user password

Note: Due to power control of the oil off with a certain degree of risk, so they need to do a confirmation operation. When TLT-2H receive the stored numbers sent off oil power commands a, confirm the password is correct, send confirmation message to the sender: "Confirm Power OFF?" And ready to receive the user's confirmation order b. If within 10 minutes before the user sent me the confirmation order, the TLT-2H off oil output power control line low, so that an external relay, circuit power supply was cut off. Send a confirmation to the user after the completion of information "POWER OFF OK".

c、Off oil and electricity single instruction format: 940 + user password

Note: 940 = 900 +901, TLT-2H receive the stored numbers of the instructions sent off immediately after the implementation of the oil and electricity.

2, off fuel and electricity to restore

a, off fuel and electricity to restore SMS commands: 902 + user password

b, off fuel and electricity to restore order confirmation SMS: 903 + user password

Description: When the TLT-2H receive the stored user ID sent off oil power restoration of order a, confirm the password is correct, send a confirmation to sender "Confirm Power ON?" and ready to receive the user's confirmation order b. If within 10 minutes before the user sent me the confirmation order, the TLT-2H off high oil output power control line to an external relay, circuit power is restored. Send a confirmation to the user after the completion of information "POWER ON OK".

c, off fuel and electricity to restore a single instruction format: 941 + user's password

Note: 941 = 902 +903, TLT-2H receive the stored numbers sent immediately after the implementation of the directive Manifold Restoration.

Attention：

This feature is used with certain risks, such as when driving on the highway

as fast to send this command may cause traffic accidents, please customers with caution, if not necessary do not use.

SMS point to point mode, set projects and advanced applications

1. Change Password command

Command format: 777 + new password 4 + Old Password 4
For example: 77712340000
Description: to confirm the old password is correct, update the user password for the new user password, set up after the success of confirmation to the sender to send text messages. Content for the "SET USER PASSWORD OK".

2. GPS status is set to command

Send SMS commands make GPS work in open / close / adaptive three states. GPS factory set or reset state for the normally open。
1, open the GPS instructions
Command format: 222 + user password 4
For example: 2,220,000
Description: When TLT-2H receiving the order, confirm the user password is correct, open the GPS power, after the success of the sender to send the confirmation to the "GPS ON OK".

2, shut down GPS instruction
Command format: 333 + user password 4
For example: 3,330,000
Description: When TLT-2H receiving the order, confirm the user password is correct, close the GPS, after the success of the sender to send the confirmation to the "GPS OFF OK".

3、Adaptive GPS instructions (power function)
Instruction: 100 + user password
for example: 1000000
Description: When the TLT-2H receiving the order, confirm the user password is correct, close the GPS to the sender immediately send a confirmation SMS: VIBRATION SENSOR ON OK. Products built-in vibration sensor, once the monitoring of movement and change to the tracking devices to immediately open the GPS, 5 minutes if there is no monitoring of changes to the tracking devices will automatically turn off sports GPS.
Note: If the long flat roads or the highway, GPS may be long dormant, but will not be awakened. If at this time to real-time location tracking, the user can send 222 + user password to re-open the GPS.

2. Instructions to send location information periodically
Instruction Format: 4 xx + user password 4
For example: 4,010,000
Description: One is a 0-9 × that figure, when XX is less than 60, its unit is minutes,

when XX is greater than 60, the value of XX minus 60, the unit is the hour, that is 61 to 1 hour, 62 for 2 hours, and so on. When TLT-2H receiving the order, confirm the correct password after, TLT-2H set the current time as the initial time of time, XX for the interval to confirm the sender's mobile phone to send text messages "TIMER START, REPEAT INTERVAL: <X> MINUTES ". Then start basic value of the initial time of time, when the arrival interval × × time to send the previous" one-time positioning request "return message format location information, which information items automatically update the state STATE: TIMER. When XX is 00, the cancellation of regular orders to send position information to the sender's mobile phone to send confirmation message "TIMER STOP".
Note: The current version of the maximum time interval can not exceed 2 hours, For a longer time, please let me company dedicated to You customize.

4. Calling switch instruction

Calling off instruction format: 150 + user password
for example: 1500000
calling open instruction format: 151 + user password
for example: 1,510,000
Description: When calling off TLT-2H received instructions to confirm the user password is correct, close the calling function (including the SOS distress, power failure alarm calling, fence alarm calling, speed alarm, etc), after the success of the sender to send the confirmation to the "SET VOICE CALL: OFF". When TLT-2H receive the caller to open command, confirm the user password is correct, open the calling features (including the SOS distress, power failure alarm calling, fence alarm calling, speed alarm, etc), after successfully sending a confirmation to sender "SET VOICE CALL: ON".

5. Phone positioning function

Description: When stored in one of the three phone numbers of calls come in, and hang up after ringing sound 2-5, then sent to the call number as a single positioning of the location information, the information in the state prompted the STATE: CALL. Non-stored phone numbers hang up incoming calls directly without any treatment.

6. Active help feature

Description: When the long press SOS button more than 3 seconds, and immediately the three phone numbers to send stored as previously, "Positioning single request" message format returned location information, the information in the state prompted the STATE: SOS. Also call a telephone number stored in the first. If unsuccessful (shutdown or not connected), then in turn call the second, third.
Note: If the calling state is off, it will not make calls, send text messages to pre-existing users only.

7. Power failure alarm

Turn power off alarm command: 011 + user password

for example: turn off power alarm command 0110000: 010 + user password
for example: 0,100,000
Description: When TLT-2H receive power from the stored number of open alarm instruction: 011 + user password After the success of the sender set to send a confirmation SMS: DEFENCE ON, 10 seconds into the deployed state. Once external power has been illegally cut, TLT-2H are immediately sent to the three numbers such as 3.1.5 stored location information, the information in the status prompt for the STATE: DEF. Also call a telephone number stored in the first. If unsuccessful (shutdown or not connected), then in turn call the second, third. When TLT-2H received telephone number stored commands the closure of power alarm: 010 + user's password, set up after the success of confirmation to the sender to send a short message: DEFENCE OFF, power off alarm removed, TLT-2H no longer monitor the external power supply incidents of illegal cut.
Note: 1. Factory set or reset operation after the power failure alarm is off. The state machine switches from the impact of the changes until you receive further instructions or reset operation.
2. If the calling state is off, it will not make calls, send text messages to pre-existing users only.

8. Electronic fence function

Electronic fence is to set the coordinates for the center of the circle, set the radius to determine the scope of the fence. When turned on, the fence after the TLT-2H beyond the scope set stored immediately after the No. 3 sent to the front, "Positioning single request" message format returned location information. Information in the state prompted the STATE: OS. Also call a telephone number stored in the first. If unsuccessful (shutdown or not connected), then in turn call the second, third.
When TLT-2H re-enter the fenced area will be set immediately sent to the No. 3 time in front of pre-existing "single positioning request" message format returned location information. Information in the state prompted the STATE: RS. Also call a telephone number stored in the first. If unsuccessful (shutdown or not connected), then in turn call the second, third.

1、Set the fenced area

According to the different coordinates input format, the user can choose the following format command operation.

Instruction format 1:003 + user password E / Wdddmm.mmmmN / Sddmm.mmRzzz.z
example: 0030000E11406.0024N2233.4230R0.1
Description: E - E; W - W; N - north latitude; S - South latitude. Used in this example is E and N, please select the appropriate location according to the actual coordinates of format settings. The meaning of the various parts of the sample as follows:
Edddmm.mmmm is divided into units of degrees longitude information, which said ddd degrees, mm.mmmm said points. (Decimal point behind the four, followed by zero can not be omitted),
Nddmm.mmmm is divided into units of degrees latitude information, which dd that degree, mm.mmmm said points. (Decimal point behind the four, followed by zero can not be

omitted)
zzz.z is the domain of radius ~ 0.1】 【999.9, units KM.
When TLT-2H receiving the order to confirm the user password is correct to return to the sender to confirm the short message: SET GEO-FENCE OK, and open the electronic fence function. Instruction format 2:004 + user password E / Wddd.dddddN / Sdd.ddddRzzz.z
example: 0040000E114.10004N22.55705R999.9
Description: E - E; W - W; N - north latitude; S - South latitude. Used in this example is E and N, please select the appropriate location according to the actual coordinates of format settings. The meaning of the various parts of the sample as follows: Eddd.ddddd are degrees of longitude information, which ddd.ddddd that degree. (Decimal point behind the five, followed by zero can not be omitted)
Ndd.ddddd is a degree of latitude in units of information, which dd.ddddd that degree. (Decimal point behind the five, followed by zero can not be omitted)
zzz.z is the domain of radius ~ 0.1】 【999.9, units KM.
When TLT-2H receiving the order to confirm the user password is correct return to the sender to confirm the short message: SET GEO-FENCE OK, and open the electronic fence function.

Instruction format 3:005 + user password Rzzz.z
For example: 0050000R0.1
Description: When the TLT-2H receiving the order to confirm the correct user password immediately after reading the latest GPS data and determine the validity of (the second is for the A), effective the extraction of the current coordinates of latitude and longitude information as a fence center of a circle, and to a value of radius R, at the same time open the electronic fence, a successful return after the first sending confirmation SET GEO-FENCE OK. GPS data is invalid if the date is to give up, continue to receive the next one, if 50 seconds have not received valid data, then return to the sender to send reminder: ERROR GPS DATA, TRY AGAIN LATER. After the GPS set to resume their original state (on / off / adaptive).

9. Open the e-fence: 211 + user password

When TLT-2H receiving the order to confirm the user password is correct to open the electronic fence to return to the sender to confirm the short message: GEO-FENCE ON.

10. Close E-fence: 210 + user password

When TLT-2H receiving the order to confirm the user password is correct closed electronic fence to return to the sender to confirm the short message: GEO-FENCE OFF.

Note: 1, the fence can not exceed the radius of its domain, the fractional part of the right to a value of zero must enter zeros. For example: R = 1, must be entered as 1.0.
2, if the calling state is off, it will not make calls, send text messages to pre-existing users only.
3 degrees and is divided into 60 binary conversion, that 1d = 60m.

Note: Three ways to set the electronic fence Choose one, when the product after receipt of the electronic fence electronic fencing instruction set feature automatically opens. When turned off the electronic fence is open again after the previous set are still valid.

11. Speed alarm

Instruction Format: # 122 # user password # X # #

example: # 122 # 0000 # 250 # #

Note: X is the speed reference value, the data type integer, in units of km / hour (KM / H), the domain of 】 【0,999. When TLT-2H receiving the order to confirm the user password is correct, it will set the speed reference value X, X = 0 时, close the speed alarm function, X =! 0 speed alarm function is turned on, after the success of the first stored to the user send confirmation message "SET RATE LIMIT: X. When the speed alarm function is turned on, TLT-2H began to read the speed of GPS data and comparison with X real-time. If the GPS speed is greater than in X, the instructions at this time speeding, TLT-2H immediately sent to the No. 3 time in front of pre-existing "one-time positioning request" message format returned location information, the information in the status prompt for the STATE: OVER SPEED. speeding alarm if it detects the speed of GPS in less than X, it indicates the speed at this time to return to a safe speed driving, TLT-2H immediately sent to the No. 3 time in front of pre-existing "one-time positioning request" message format returned location information, the information in the state prompted the STATE: SAFE SPEED.

12. Historical data uploading

In SMS mode, need to use this feature on the switch to GPRS mode on IP, APN settings, etc., specific instructions and upload the data format, see 3.2 based applications based on GPRS operation.

1, configuration

Format : #807#user password #X##

Note: X is frequency, the area is (0,999), the unit is "second". When the unit receive this command and confirm the password is right. And set the history frequency is X. When the X=0, that's close the function. If X=30, that's mean that the unit will save the data every 30se, if the command is ok, then send "SET SAMPLEING OK" to the unit.

1, the memory of every data is 100B

2, the memory of the unit for the history is 864KB. For example, if you set the X=30, it's about can save the data of three days . If X=300, it's about can save the data of thirty days. When the data is above 864KB,the next new data will cover the oldest

data.
3, if the air sensor is open and also the unit is not move for a long time, the history record will close and the unit will open once the unit is moving again.

2, Upload the history data
A: upload the history data of 24h
Format : #808#user password #24##
When the unit receive this command and confirm the password is correct, then send "START UPLOAD ALL HISTORY RECORD" and then send all of the data to the server. The format is like 1.1 .the state is "STORAGE"

13. Low voltage alarm

When TLT-2H operating voltage, below the set value, reading the GPS information, regardless of the validity of the three numbers stored immediately sent to the front, "Positioning single request" message format returned location information, One item automatically updated information state STATE: LP. Were sent three times, each time interval of 1 minute.

14. ACC function test charge

1)、ACC function test charge

TLT-2H ACC lead by external detection of the state of ACC vehicles to take the car to achieve (ACC open), on the TLT-2H-board battery built-in battery charging, parking (ACC OFF), the cessation of the TLT-2H built-in battery .

2)、ACC state switch command prompt

Open the command prompt ACC state format: 091 + user password
for example: 0910000
ACC state prompted to close command format: 090 + user password
for example: 0,900,000
Description: When TLT-2H received 091 orders, confirm the user password is correct, send a confirmation to sender information "ACC STATE PROMPT: ON". When the ACC in the on / off switch, the text mode, all stored numbers immediately to send the current location information, regardless of GPS data is valid, and to "AUTO START / AUTO STOP" as the opening ACC / ACC switch off when the upload data the state mark. When TLT-2H received 090 orders, confirm the user password is correct, send a confirmation to sender "ACC STATE PROMPT: OFF". When the ACC in the on / off switch, either GPRS mode or point to point mode, TLT-2H will not send any data. Note: The default value is ON, set the switch machine from the impact of the changes until you receive further instructions or reset operation related.

15、ACC alarm detection and displacement

Shift alarm locale command: 008 + user password + Rzzz.z

close shift alarm command: 009 + password

function: When the TLT-2H received 008 + user password + Rzzz.z command and verify that the password is correct, set zzz.z area for the mobile alarm radius. zzz.z domain from 0.1 to 999.9 for the 【】, units KM. Setting is successful, return to sender to confirm information: SET MOVE

RADIUS OK.

After the success of mobile police locale, if the TLT-2H detected ACC switch to the closed state by the turn, then after 3 minutes delay, read the current location information as a coordinate origin, regardless of the validity of gps data, and to zzz.z as radius of the electronic regional deployment.

In the ACC is off, if TLT-2H detected beyond the deployment region, SMS mode immediately sent to a shift of all stored numbers warning message, the message states labeled STATE: ACC OS, (GPRS mode immediately From the current location information server, the state labeled ACC OS) and dial stored phone. (Whether by the 150/151 call control, reset, only to send text messages do not make a call); the deployment area and if it once again into the deployed area, then will upload or send the location information stored alarm messages and phone calls, of which Information in the state labeled ACC RS.

Once the TLT-2H state is detected by the closed switch to the ACC after opening the alarm automatically remove the shift, when the ACC state by the open switch to close, move alarm will once again open.

When TLT-2H received 009 + user password and verify the password correctly, the motion alarm feature to be forced off, even if the ACC status changed from open to close the switch, then move the alarm will not re-open, unless you send 008 to open . Setting is successful, to send short interest has arisen to confirm: MOVE DEFENGCE: OFF.

Note: Mobile alarm turned on by default, the role of the radius value of 500 meters.

16、Remote upgrade instructions

1)、Command format:! - User password For example:! -0000

Description: When TLT-2H receiving the order to confirm the user password is correct, the automatic restart and automatically log on FTP server to download program. When the update again after a successful reboot into normal use.

Note: FTP address is stored within the machine

2)、Command format:! - User password, FTP address, user name, password

for example:! -0000, Igarin.gicp.net, vsun, vsun

Description: When TLT-2H receiving the order to confirm the user password is correct, the automatic restart and automatically Login FTP address to download the server program. When the update again after a successful reboot into normal use.

Note: FTP address length 【5.35】, can also domain names, letters, numbers, dot (.) Underscore (_) and hyphen (-) form. User name FTP server user name, length 【3.20】; password for the FTP server password length 【3.20】. User name and password, respectively, numbers and letters.

GPRS mode, the application of operations

Mode switching instructions please refer to the aforementioned mode switching, in the working mode, TLT-2H can be stored three numbers (1, 2, 3) and a 4-digit password, a group of TCP / IP server IP address and port number, 4 digit password and a GPRS GPRS access point APN number. User-defined text messages related configuration commands are non-volatile content, set free after the success of the state of switch

machine effect until changed again received the relevant instructions or reset operation
。

1). The product location data uploaded to the Internet, three major steps:

1. Settings GPRS access point (Access Point Name)
Instruction format 1: # 803 # user password # APN # #
example: # 803 # 0000 # CMNET # # directive format 2: # 803 # Password # APN # APN Username Password # APN # #
Note 1: different GSM / GPRS service providers to offer a different APN, please according to the local service provider's APN to choose to use the instruction format 1 or format 2 instruction set. Note 2: When the TLT-2H receiving the order, confirm the user password is correct, update GPRS access point for the new access point, set up after the success of confirmation to the sender to send a short message. If you send the order form 1, then back to confirm the information "SET GPRS APN OK". If you send the order form 2, back to confirm the information "SET GPRS ACCOUNT OK". Note: APN factory set or reset to CMNET. APN for 3 to 35 letters, numbers, dot (.) Underscore (_) and hyphen (-) formed characters. APN APN username user and password, respectively, from 3 to 20 characters consisting of numbers and letters.

2). Set TCP / IP server IP address and port number
Instruction Format: # 804 # # Fixed IP addresses user password / domain # port # # example: # 804 # 0000 # 222.125.12.32 # 80 # # or # 804 # 0000 # www.gps069.com # 9876 # #
Description: When TLT-2H receiving the order, confirm the user password is correct, update TLT-2H stored within the IP address and port number, set up after the success of confirmation to the sender to send a short message: "SET SERVER IP AND PORT OK".

3). From time to time the data set
From time to time two modes of data, a model for the go cart track, a cutting pattern for the parking. ACC state of two modes automatically switch according to the vehicle. ACC is open for the go cart track mode, ACC closed to stop saving mode. Two models under the settings and upload GPS sampling time the number of different articles, take the car to achieve a more intensive upload data to portray a more detailed real-time vehicle trajectory; stop uploading when the sparse data, thus saving SIM card traffic fee also guarantees a certain degree of tracking results. When the time data upload mode switching, it will immediately upload the data storage area inside, and then after switching the timing mode in accordance with upload data.

From time to time to go car tracking mode
command format: # 805 # Password # sampling interval T # upload data each time the Number N # #
example: # 805 # 0000 # 10 # 6 # # Function: sampling time of T units second domain is】 【10,59999, upload data each time the Number of N, the domain of 【1.50】. When TLT-2H receiving the order, confirm the user password is correct, send a confirmation

to the sender SMS: SET GPS SAMPLING TIME AND QUANTITY OK. Instructions specified in both the sampling interval T, a continuous reading GPS NEMA data in the $ GPRMC statement, and stored in memory. When the number of articles stored in the user set up the Number of N per upload, began to connect GPRS server and the data sent. If due to network or other causes of data not sent to the server, the data is automatically backed up, when the network returned to normal after the replacement data to the server. From the data shown in formats such as 3.2.10, the data in the state labeled AUTO. When set to "upload data each time the Number of N" is 0, then close the regular upload, send a confirmation to the sender SMS: GPRS TIMER STOP.

From time to time stop mode throttle

command format: # 809 # user password # x # y # #

example: # 809 # 0000 # 10 # 6 # # Function: x sampling time in seconds, defines the domain for the 【10,59999 】, upload data each time the Number of y, domain as 【1.50】. When TLT-2H receiving the order, confirm the user password is correct, send a confirmation to the sender SMS: GPRS REPORT SAMPLING 2 OK ". Both directives as specified in the sampling interval X, a continuous reading GPS NEMA data The $ GPRMC statement, and stored in the memory. When the number of articles stored in the user settings for each upload to the Number of Y, we began to connect GPRS server and the data sent. If the result of network or other causes of data not sent to the server, the data is automatically backed up, when the network returned to normal after the replacement data to the server. From the data format and the GPRS mode "immediately upload the current location of command" of the location information shown in the data state marked as AUTOLOW. When set to "upload data each time the Number of Y" is 0, then close the regular upload, send a confirmation to the sender SMS: GPRS REPORT SAMPLING 2 STOP. Note: From time to time affect the setting from Off, change again until the receipt of the relevant instructions or reset operation. If the power-saving feature is turned on, products in the power-saving state to stop upload location data; the GPS power-saving features can be found in the following detailed GPRS advanced applications.

Do the three-step basic setup, you can operate in the service of products for you to monitor the platform to see their vehicle running track, monitor the movements of the vehicle.

Products in the GPRS mode settings and advanced applications

1. Change the stored telephone number instruction
instruction format: * new number 4-20 bit * Password 4 * number (1-3) **
For example: * 13900000000 * 0000 * 1 ** Note: can be stored up to 3 telephone numbers. When TLT-2H receiving the order, confirm the user password is correct, with the new number to replace the existing number, after the success of the sender to send the confirmation to the "SET USER NUMBER (1-3) OK".

2. Change Password command
command format: 777 + new password 4 + Old Password 4
For example: 77712340000 Description: to confirm the old password is correct, update the user password for the new user password, set up after the success of confirmation to the sender sends a short message. Content for the "SET USER PASSWORD OK".

3. GPS status is set to command
Send SMS commands make GPS work in open / close / adaptive three states. GPS factory set or reset for the normal open state.
1, open the GPS instruction
instruction format: 222 + user password 4
For example: 2,220,000 Description: When the TLT-2H receiving the order, confirm the user password is correct, open the GPS power, after the success of the sender to send the confirmation to the "GPS ON OK . "
2, close the GPS commands
command format: 333 + user password 4
For example: 3,330,000 Description: When the TLT-2H receiving the order, confirm the user password is correct, close the GPS, after the success of the sender to send the confirmation to the "GPS OFF OK" .
3, adaptive GPS instructions (power function)
commands: 100 + user password
for example: 1000000
Description: When the TLT-2H receiving the order, confirm the user password is correct, close the GPS to the sender immediately send a confirmation SMS: VIBRATION SENSOR ON OK. Products built-in vibration sensor, once the monitoring of movement and change to the tracking devices to immediately open the GPS, within 5 minutes if there is no monitoring of changes to the tracking devices will automatically turn off sports GPS. Note: If the long flat roads or the highway, GPS may be long dormant, but will not be awakened. If at this time to real-time location tracking, the user can send 222 + user password to re-open the GPS.

4. Single positioning request instructions
Command format: 666 + user password 4

For example: 6,660,000
Description: When TLT-2H receiving the order, confirm the user password is correct, read the GPS information, regardless of the validity of it, together with the original software with the base station set return back to the sender.
Data format：
Lat: latitude (+/-) latitude value (precision after the decimal point 5)
Long:: longitude direction (+/-) longitude value (precision after the decimal point 5)
Speed: speed KM / H (precision after the decimal point 2)
Direction: Heading (accurate to two decimal places)
Date: Date YYYY-MM-DD
Time: Time HH: MM: SS (GMT)
BS: base station information
FIX: Position Status (A / V)
ID: IMEI STATE: Information Status

Valid data sample:
Lat: +22.50500
Long: +114.01000
Speed: 0.00KM/H
Direction: 315.00
Date: 2008-04-25
Time: 16:39:45
BS: 25ee0dff
Fix: A
ID: 353686009002030
STATE: SMS

Invalid data sample:
Lat: +22.50500
Long: +114.01000
Speed: 0.00KM/H
Direction: 315.00
Date: 2008-04-25
Time: 16:39:45
BS: 25ee0dff
Fix: V
ID: 353686009002030
STATE: SMS

Note: If the cold start and the GPS does not locate, then return invalid information such as：ERROR GPS GPRMC FRAME DATA
BS: 27971054
ID: 353686009002030
STATE: SMS

5. Change the GPRS user name
Instruction Format: # 801 # user password # # #
For example, the new user name: # 801 # 0000 # username # #
Note: When TLT-2H receiving the order, confirm the user password is correct, update the user name the new user name , set after the success of the sender send a confirmation to the short message: "CHANGE USERNAME OK".

6. GPRS service password change
Instruction Format: # 802 # service password user password # new password # # # old services
such as: # 802 # 0000 # 1111 # 0000 # #
Description: When TLT-2H receiving the order, confirm the user password and old password is correct service After the update service password password for the new service, set to the sender after the success of short message sent to confirm: "CHANGE PASSWORD OK".

7. From here instructions immediately

Instruction Format: # 806 # user password # #
example: # 806 # 0000 # #
Description: When TLT-2H receiving the order, confirm the user password is correct, the first stored number to send a confirmation SMS "START GPRS UPLOAD "while the server sends the current store of data. From the data in the state prompted for the "SMS".
Upload Format:
IMEI number # user name # service password # # status
data base of information $ GPRMC ... . # Base Station Information $ GPRMC ... . # # For example:
#123456789000001#SR-6869BE#0000#SMS#3
#25ee0dff$GPRMC,083945.180,A,2233.4249,N,11406.0046,E,0.00,315.00,251207,,,A*6E
#25ee0dff$GPRMC,083950.180,A,2233.4249,N,11406.0046,E,0.00,315.00,251207,,,A*6E
#25ee0dff$GPRMC,083955.180,A,2233.4249,N,11406.0046,E,0.00,315.00,251207,,,A*6E
##
Note: The data format immediately upload status: SMS.

8. Calling switch instruction
Calling off instruction format: 150 + user password
for example: 1500000
calling open instruction format: 151 + user password
for example: 1,510,000
Description: When calling off TLT-2H received instructions to confirm the user password is correct, close the calling function (including the SOS distress, power failure alarm calling, fence alarm calling, speed alarm, etc), after the success of the sender to send the confirmation to the "SET VOICE CALL: OFF". When TLT-2H receive the caller to open command, confirm the user password is correct, open the calling features (including the SOS distress, power failure alarm calling, fence alarm

calling, speed alarm, etc), after successfully sending a confirmation to sender "SET VOICE CALL: ON".

9. Phone Upload

Description: When stored in one of three telephone calls come in to locate numbers and ringing in the back to hang up after 2-5 sound, then treated as a single positioning command processing, the status prompt for the "CALL".

10. Emergency Upload

Description: When the regular press SOS button more than 3 seconds, then regarded as GPRS mode "immediately upload instructions current location", the status prompt for the "SOS". Stored at the same time the first phone call, if not successful (or not turned off), then in turn call the second, third.

Note: If the calling state is off, it will not make a call, only to send location information to the platform server.

11. Power failure alarm

Turn power off alarm command: 011 + user password

for example: 0110000

turn off power alarm command 0110000: 010 + user password

for example: 0,100,000

Description: When TLT-2H receive power from the stored number of open alarm instruction: 011 + user password After the success of the sender set to send a confirmation SMS: DEFENCE ON, 10 seconds into the deployed state. Once external power has been illegally cut, TLT-2H are immediately sent to the server, such as format and GPRS mode "immediately upload the current location of command" as shown in the position information of the location information, the information in the status prompt for the DEF. Also call a telephone number stored in the first. If unsuccessful (shutdown or not connected), then in turn call the second, third. When TLT-2H received telephone number stored commands the closure of power alarm: 010 + user's password, set up after the success of confirmation to the sender to send a short message: DEFENCE OFF, power off alarm removed, TLT-2H no longer monitor the external power supply incidents of illegal cut.

Note: 1. Factory set or reset operation after the power failure alarm is off. The state machine switches from the impact of the changes until you receive further instructions or reset operation.

2. If the calling state is off, it will not make calls, send text messages to pre-existing users only.

12. Electronic fence function

Electronic fence is to set the coordinates for the center of the circle, set the radius to determine the scope of the fence. When turned on, the fence after the TLT-2H beyond the limits set by the format immediately sent to the server and GPRS mode "immediately upload the current location of command" of the location information shown in the format of location information. Information in the state prompted to: OS. Also call a telephone number stored in the first. If unsuccessful (shutdown or not connected), then in turn call the second, third.

When TLT-2H re-enter the fenced area will be set immediately sent to the server 3.2.10 format location information. Tips for the state information: RS. Also call a telephone number stored in the first. If unsuccessful (shutdown or not connected), then in turn call the second, third.

1、Set the fenced area

According to the different coordinates input format, the user can choose the following format command operation.

Instruction format 1:003 + user password E / Wdddmm.mmmmN / Sddmm.mmRzzz.z

example: 0030000E11406.0024N2233.4230R0.1

Description: E - E; W - W; N - north latitude; S - South latitude. Used in this example is E and N, please select the appropriate location according to the actual coordinates of format settings. The meaning of the various parts of the sample as follows:

Edddmm.mmmm is divided into units of degrees longitude information, which said ddd degrees, mm.mmmm said points. (Decimal point behind the four, followed by zero can not be omitted),

Nddmm.mmmm is a degree of latitude is divided into units of information, which dd that degree, mm.mmmm said points. (Decimal point behind the four, followed by zero can not be omitted)

zzz.z is the domain of radius ~ 0.1】 【999.9, units KM.

When TLT-2H receiving the order to confirm the user password is correct to return to the sender to confirm the short message: SET GEO-FENCE OK

2 instruction format：004 + user password E / Wddd.dddddN / Sdd.ddddRzzz.z

For example: 0040000E114.10004N22.55705R999.9

Description: E - E; W - W; N - north latitude; S - south latitude. Used in this example is E and N, please select the appropriate location according to the actual coordinates of format settings. The meaning of the various parts of the sample as follows:

Eddd.ddddd are degrees of longitude information, which ddd.ddddd that degree. (Decimal point behind the five, followed by zero can not be omitted)

Ndd.ddddd is a degree of latitude in units of information, which dd.ddddd that degree. (Decimal point behind the five, followed by zero can not be omitted)

zzz.z is the domain of radius ~ 0.1】 【999.9, units KM.

When TLT-2H receiving the order to confirm the user password is correct return to the sender to confirm the short message: SET GEO-FENCE OK.

Instruction format 3:005 + user password Rzzz.z

For example: 0050000R0.1

Description: When the TLT-2H receiving the order to confirm the correct user password immediately after reading the latest GPS data and determine the validity of (the second is for the A), effective the extraction of the current coordinates of latitude and longitude information as a fence center of a circle, and to a value of radius R, at the same time open the electronic fence, a successful return after the first sending confirmation SET GEO-FENCE OK. GPS data is invalid if the date is to give up, continue to receive the next one, if 50 seconds have not received valid data, then return to the sender to send reminder: ERROR GPS DATA, TRY AGAIN LATER. After

the GPS set to resume their original state (on / off / adaptive)
Note: 1, the fence can not exceed the radius of its domain, the fractional part of the right to a value of zero must enter zeros.
For example: R = 1, must be entered as 1.0. 2, if the calling state is off, it will not make calls, send text messages to pre-existing users only. 3 degrees and is divided into 60 binary conversion, that 1d = 60m.

13. Open the e-fence: 211 + user password

When TLT-2H receiving the order to confirm the user password is correct to open the electronic fence to return to the sender to confirm the short message: GEO-FENCE ON.

14. Close E-fence: 210 + user password

When TLT-2H receiving the order to confirm the user password is correct closed electronic fence to return to the sender to confirm the short message: GEO-FENCE OFF.

15. Function off fuel and electricity

1. Off fuel and electricity to be able to
a, off fuel and electricity SMS commands: the user password 900 +
b, off fuel and electricity SMS confirmation instructions: Note 901 + user password instructions: power control for oil off with a certain degree of risk, so they need to do more a confirmation operation. When TLT-2H receive the stored numbers sent off oil power commands a, confirm the password is correct, send confirmation message to the sender: "Confirm Power OFF?" And ready to receive the user's confirmation order b. If within 10 minutes before the user sent me the confirmation order, the TLT-2H off oil output power control line low, so that an external relay, circuit power supply was cut off. Send a confirmation to the user after the completion of information "POWER OFF OK". c, off fuel and electricity single instruction format: 940 + user's password

Note: 940 = 900 +901, TLT-2H receive the stored numbers of the instructions sent off immediately after the implementation of the oil and electricity.

2, off fuel and electricity to restore

a, off fuel and electricity to restore SMS commands: 902 + user password

b, off fuel and electricity to restore order confirmation SMS: 903 + user password

Description: When the TLT-2H receive the stored user ID sent off oil power restoration of order a, confirm the password is correct, send a confirmation to sender "Confirm Power ON?" and ready to receive the user's confirmation order b. If within 10 minutes before the user sent me the confirmation order, the TLT-2H off high oil output power control line to an external relay, circuit power is restored. Send a confirmation to the user after the completion of information "POWER ON OK".

c, off fuel and electricity to restore a single instruction format: 941 + user's

password

Note: 941 = 902 +903, TLT-2H receive the stored numbers sent immediately after the implementation of the directive Manifold Restoration.

Note: This function when used with certain risks, such as when driving on the highway as fast to send this command may cause traffic accidents, please customers with caution, if not necessary do not use.

16. Speed alarm

Instruction Format: # 122 # user password # X # #
example: # 122 # 0000 # 250 # #
Note: X is the speed reference value, the data type integer, in units of km / hour (KM / H), the domain of 】 【0,999. When TLT-2H receiving the order to confirm the user password is correct, it will set the speed reference value X, X = 0 时, close the speed alarm function, X =! 0 speed alarm function is turned on, after the success of the first stored to the user send confirmation message "SET RATE LIMIT: X. When the speed alarm function is turned on, TLT-2H began to read the speed of GPS data and comparison with X real-time. If the GPS speed is greater than in X, the instructions at this time speeding, TLT-2H immediately sent to the server and the GPRS mode, a format "command to immediately upload the current location" as shown in the position information of the location information, information in the state prompted the OVER SPEED. speeding alarm if it detects GPS in speed is less than X, it indicates the speed at this time to return to a safe speed driving, TLT-2H immediately sent to the server and the GPRS mode, a format "command to immediately upload the current location" as shown in the position information of the location information, status information Tips for the SAFE SPEED.

17. Historical data uploading

In SMS mode, need to use this feature on the switch to GPRS mode on IP, APN settings, etc..

1、Historical data records set
Instruction Format: # 807 # user password # X # #
example: # 807 # 0000 # 30 # #
Note: X is a historical record of the sampling frequency, integer, 0,999】 【domain as the unit is seconds. When TLT-2H receiving the order to confirm the user password is correct, set the historical record of the sampling frequency is X. If X = 0, then close the historical data records, if X! = 0, then the start time interval to X seconds for the GPS data received and stored, after a successful return to the sender to

confirm the information "SET SAMPLING OK".

Note:

1, record the size of each data about 100B (BYTE).

2, historical data records for storage space allocated to 864KB (BYTE), data storage stack covered with an updated approach. Suppose X = 30, you can record about 3 days of data, if X = 300, you can record about 30 days of data. When the data is full 864KB, the new data received to cover the first recorded data automatically.

3, if the power-saving feature is turned on and the TLT-2H long at rest, then history will automatically shut down until the TLT-2H wake up and opened the GPS.

2、Set of historical data upload instructions

A，From 24-hour history：

Instruction Format: # 808 # user password # 24 # #

example: # 808 # 0 000 # 24 # #

Note: When TLT-2H received the order confirmation password is correct, the return confirmation message sender: "START UPLOAD 24H HISTORY RECORD ". Sent to the server while starting the last 24 hours recorded historical data, format and GPRS mode "immediately upload the current location of command" of the location information as shown, information in the state prompted the STORAGE.

B，Read all the data records：

Instruction Format: # 808 # 0000 # #

Description: When TLT-2H receiving the order to confirm the user password is correct, return to sender confirmation message: "START UPLOAD ALL HISTORY RECORD". Also sent to the server storage area began to record all the historical data, format and GPRS mode "immediately upload instructions current location," location information shown. Information in the state prompted the STORAGE.

16. Low voltage Upload

When TLT-2H working voltage, when below the set value, then treated as a single positioning command processing, and increase in the data state "LP" key supporting characterized the current state. Were made three times, each time interval of 1 minute.

17. Detection of charging function

1)、ACC function test charge

TLT-2H ACC lead by external detection of the state of ACC vehicles to take the car to achieve (ACC open), on the TLT-2H-board battery built-in battery charging, parking (ACC OFF), the cessation of the TLT-2H built-in battery .

2)、ACC state switch command prompt

Open the command prompt ACC state format: 091 + user password

for example: 0910000

ACC state prompted to close command format: 090 + user password

for example: 0,900,000

Description: When TLT-2H received 091 orders, confirm the user password is correct, send a confirmation to sender information "ACC STATE PROMPT: ON". When the ACC in the on / off switch, and immediately uploaded to the server the current location information, regardless of GPS data is valid, and to AUTO START / AUTO STOP open as ACC / ACC switch off the state mark when uploading data. When the ACC after the state switched in accordance with # 805 # / # 809 # directive to set a way to send data.

When TLT-2H received 090 orders, confirm the user password is correct, send a confirmation to sender "ACC STATE PROMPT: OFF". When the ACC in the on / off switch, either GPRS mode or point to point mode, TLT-2H will not send any data. When the ACC after the state switched in accordance with # 805 # / # 809 # directive to set a way to send data. Note: The default value is ON, set the switch machine from the impact of the changes until you receive further instructions or reset operation related.

18、ACC alarm detection and displacement

Shift alarm locale command: 008 + user password + Rzzz.z

close shift alarm command: 009 + password

function: When the TLT-2H received 008 + user password + Rzzz.z command and verify that the password is correct, set zzz.z area for the mobile alarm radius. zzz.z domain from 0.1 to 999.9 for the 【】, units KM. Setting is successful, return to sender to confirm information: SET MOVE RADIUS OK.

After the success of mobile police locale, if the TLT-2H detected ACC switch to the closed state by the turn, then after 3 minutes delay, read the current location information as a coordinate origin, regardless of the validity of gps data, and to zzz.z as radius of the electronic regional deployment.

In the ACC is off, if TLT-2H detected beyond the deployment region, SMS mode immediately sent to a shift of all stored numbers warning message, the message states labeled STATE: ACC OS, (GPRS mode immediately From the current location information server, the state labeled ACC OS) and dial stored phone. (Whether by the 150/151 call control, reset, only to send text messages do not make a call); the deployment area and if it once again into the deployed area, then will upload or send the location information stored alarm messages and phone calls, of which Information in the state labeled ACC RS.

Once the TLT-2H state is detected by the closed switch to the ACC after opening the alarm automatically remove the shift, when the ACC state by the open switch to close, move alarm will once again open.

When TLT-2H received 009 + user password and verify the password correctly, the motion alarm feature to be forced off, even if the ACC status changed from open to close the switch, then move the alarm will not re-open, unless you send 008 to open . Setting is successful, to send short interest has arisen to confirm: MOVE DEFENGCE: OFF.

Note: Mobile alarm turned on by default, the role of the radius value of 500 meters.

19、Invalid data is uploaded switch

Instruction Format: 08X + user password 4 Function: When the TLT-2H receiving the order, confirm the user password is correct, according to the value of X is upload invalid data set switch state. X = 1, open the invalid data uploading. After the

success of the sender set to send a confirmation SMS: INVALID DATA UPLOAD: ON, at this time whether TLT-2H received GPS data is valid will be uploaded to the server. X = 0, close the invalid data uploading, set after the success of confirmation to the sender to send a short message: INVALID DATA UPLOAD: OFF, then close the invalid data upload, only upload valid data. Note: The factory set or reset the state after the operation to stop uploading invalid data, this instruction set machine state without switching effect, until once again received the relevant instructions to change or reset operation. Note: 1, this feature is only effective in GPRS mode 2, the default value is OFF.

20、Remote upgrade instructions

1)、Command format:! - User password

For example:! -0000

Description: When the TLT-2H receiving the order to confirm the user password is correct, the automatic restart and automatically log on FTP server to download program. When the update again after a successful reboot into normal use. Note: FTP address is stored within the machine

2), instruction format:! - User password, FTP address, user name, password, for example:! -0000, Igarin.gicp.net, vsun, vsun

Description: When the TLT-2H receiving the order to confirm the user password is correct, automatically reboot and automatically login FTP address server download. When the update again after a successful reboot into normal use.

Note: FTP address length 【5.35】, can also domain names, letters, numbers, dot (.) Underscore (_) and hyphen (-) form. User name FTP server user name, length 【3.20】; password for the FTP server password length 【3.20】. User name and password, respectively, numbers and letters.

Accessibility operation

1, Directive reset * RESET # 0000 # #.

Description: This command resets all the configuration information after reboot to the factory configuration.

2, instruction restart * RESTART # 0000 # #

Description: This command only restart the TLT-2H, did not reset the configuration information.

3、Read the current configuration of the module
SMS command format: * GTAS #
Function: When the module is receiving instruction, the return module keep all the settings.
Data format:
IMEI: marked as code
MOD: Point to Point (SMS P2P 2) / SMS platform (SMS SC) / GPRS
GPS: normally open (ON) / normally closed (OFF) / power (AUTO)
HFR: hands-free Switch
MTPRF: monitor (SILENT) / normal (NORMAL)
BS: base station information back to the number of GEO-FENCE = ON / OFF longitude Longitude, latitude latitude value (R radius (minimum 0.1KM) GEO-FENCE STATE: RS / OS DEFENCE: ON / OFF power off alarm switch
VOICE: ON / OFF switch calling POWER: ON / OFF power switch off oil
RATE: XX speeding baseline
ST: time location information requested time interval
TN: SMS mode timer request No
INVALID UPLOAD: invalid data upload switch
MOVE: displacement alarm radius, displacement alarm switch
ACC PROMPT: ACC switching state switch
GU:, GPRS user name, password,
SRV: Server IP address, port number
APN:,, GPRS access point, APN user name, APN Password
SAMP: From the sampling interval, an upload article number (go cart track regularly upload mode)
SAMP2: From the sampling interval, an upload article number (stop mode throttle upload time) HISTORY SAMP: History From the sampling interval
4、 Read all of the number and password
Format：*GTAN#
Note：when the unit receive this command, the unit will send all of the number and password to the sender including center number and center password and user number and user password.
Data Format：
U1: Number one, Password
U2:Number two, Password
U3:Number three, Password
SC:Center Number, Service Password

4. Instruction Set

Instruction	Explanation
700+ user password	SMS Mode
710+ user password	GPRS Mode

011+ user password	Open the power outage alarm
010+ user password	Close the power outage alarm
003+ user password E/Wdddmm.mmmm N/Sddmm.mmmmRzzz.z	Set the scope of the fence (units of degrees and minutes) in two modes
004+ user password E/Wddd.dddddN/Sdd.dddddRzzz.z	Set the scope of the fence (units of degrees) in two modes
100+ user password	Open power-saving function in two modes
150+ user password	Close calling instruction in two modes
151+ user password	Open calling instruction in two modes
211 + user password	Open the electronic fence in two modes
210 + user password	Close the electronic fence in two modes
222+ user password	Open GPS In two modes
333+ user password	Close GPS In two modes
4xx+ user password	Regularly upload in SMS mode
666+ user password	Return single localization to user number in two modes
777+new password + old password	Change user password in two modes
900+ user password	Cut-off electricity and oil in advance function in two modes
901+ user password	Cut-off electricity and oil function in two modes
902+ user password	Cut-off electricity and oil to recovery in advance command in two modes
903+ user password	Cut-off electricity and oil to recovery command in two modes
new numbers user password *location number**	Change the telephone number in advance in two modes
#801#user password # new user name##	Change the user name in GPRS mode
#802#user password # new service password # old service password ##	Change service password in GPRS mode
#803# user password #APN##	Set up access GPRS points in GPRS mode

#803# user password #APN#APN user name# APN password##	Set up access GPRS points in GPRS mode
#804#user password # fixed IP address # port ##	Set up TCP / IP server's IP address and port number in GPRS mode
#805#user password# sampling interval T # the number of upload data each time N##	Upload data set in GPRS mode
#806# user password ##	Upload the current position immediately in GPRS mode
*GTAN# user password##	Read all the current numbers, passwords
*GTAS# user password##	Read current settings